***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW50/HW50: Geometric Probability

**Geometry  
Due: Wednesday, January 11th**

**READ ALL DIRECTIONS! Failure to show** ALL WORK **and follow** all directions COMPLETELY **will result in LaSalle.  
  
Directions:** Muchin is planning a carnival to celebrate the end of the semester. You decide to prepare for the carnival games by using ALL THAT GEOMETRY KNOWLEDGE of course!!

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| 1. ../../../../Desktop/Screen%20Shot%202017-01-08%20at%205.04.53%20PM.pn | First up! Darts. Rules: You only get to throw one dart.   a) What is the probability that, if you throw a dart, it will be a bull’s-eye (inner most circle) b) What is the probability that you throw a dart into the inner ring? c) What is the probability that you throw a dart into the outer ring? d) What is the probability that you miss the circles completely and place your dart on the white part of the board? |
|  | Darts Pt. II Rules: You only get to throw one dart.  Find the probability of throwing your dart into each region of the following regions: a) bull’s-eye (smallest circle) b) smallest ring c) medium ring d) largest ring |
|  | Muchin decides to ask the geometry students at Muchin to re-design a dart board. The class comes up with the design to the left. Rules: You only get to throw one dart.  Find the probability of throwing your dart into the following regions: a) The square (side length 2 inches) b) the smallest circles (diameter 0.5 in) c) the medium circles (diameter 1 in) |
|  | Next up – Pie a teacher in the face! Rules: You only get to throw one pie, so make it count!  What is the probability of throwing the pie right on the teacher’s face if the hole in the board for their face is  9 inches in diameter? |
|  | Bean Bag Toss Rules: You only get to throw one bean bag.  Suppose the diameter of each hole is 4 in. What is the probability of throwing your bean bag into the holes? |
|  | Bean Bag Toss Pt. II Rules: You only get to throw one bean bag.   The geometry class is back at it again! Here is their re-design of the bean bag toss.   What is the probability of throwing a bag into the square holes? |
|  | Wheel of fortune! Rules: You only get to spin once.  What is the probability of getting the following points? a) 25 points b) 50 points c) 80 points d) 100 points |
|  | Wheel of fortune part II**!** Rules: You only get to spin once.   What is the probability of landing in each of the following regions: a) White b) Red c) Blue |